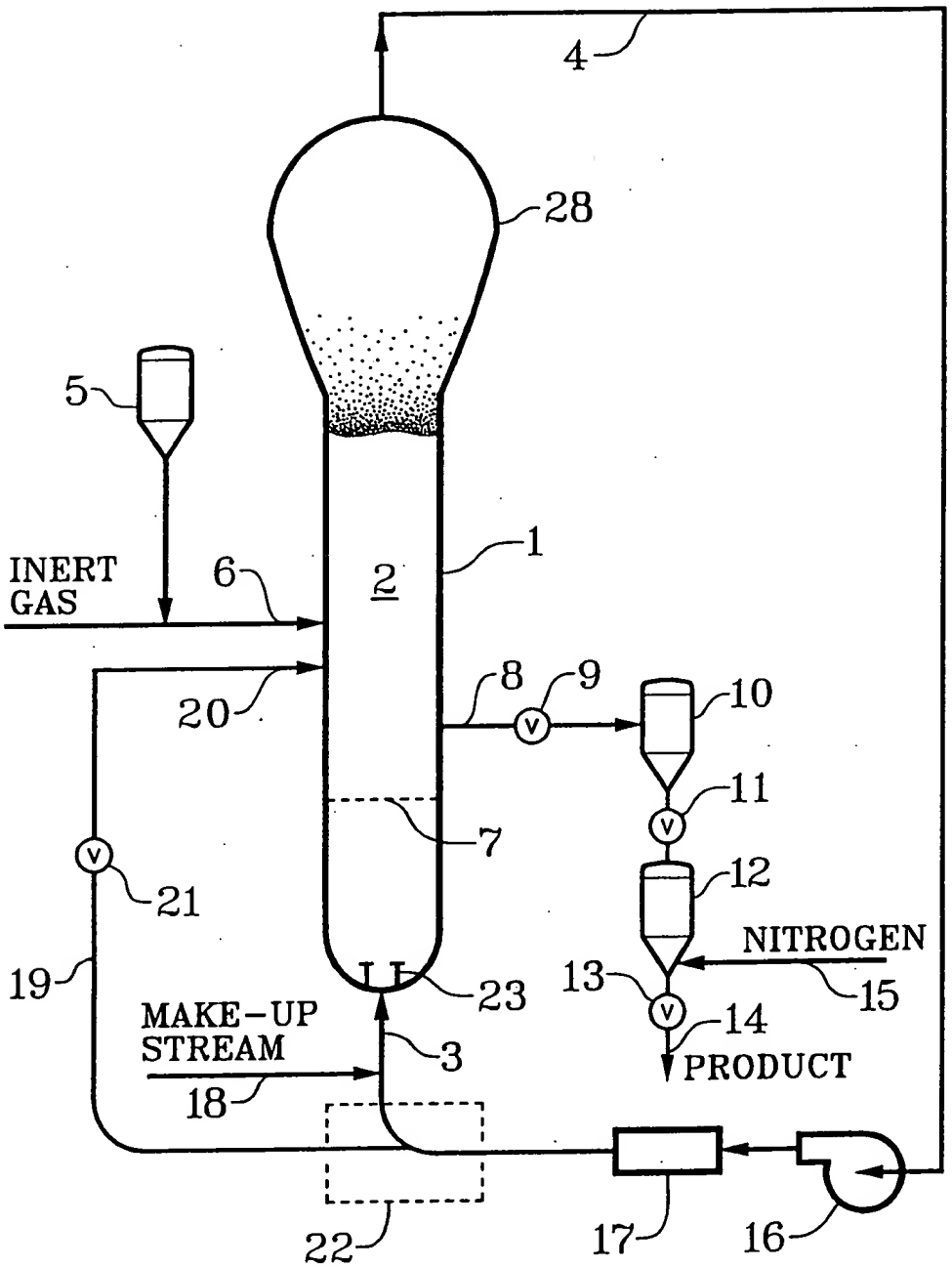

4
28
5
INERT
GAS
6
2
1
20
8
9
10
11
12
NITROGEN
7
21
19
13
15
23
MAKE-UP
STREAM
3
14
PRODUCT
18
22
17
16

Fig. 1

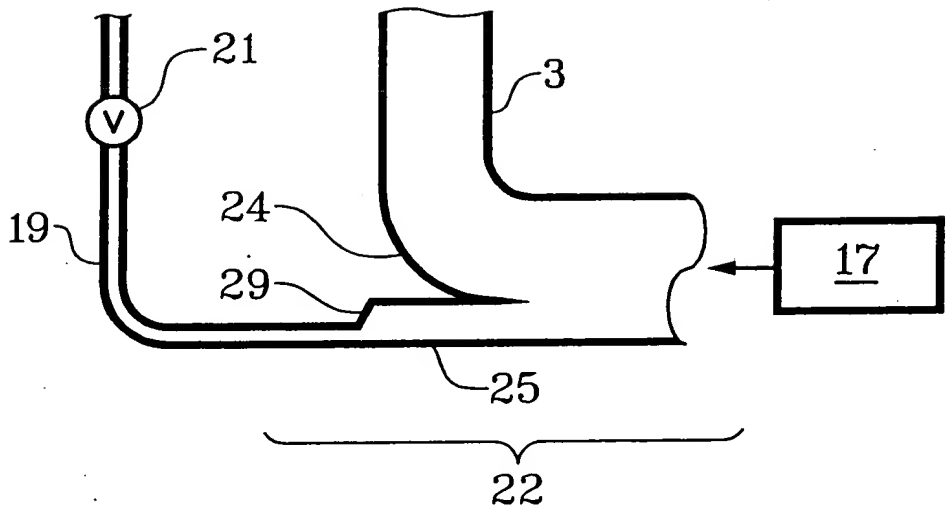
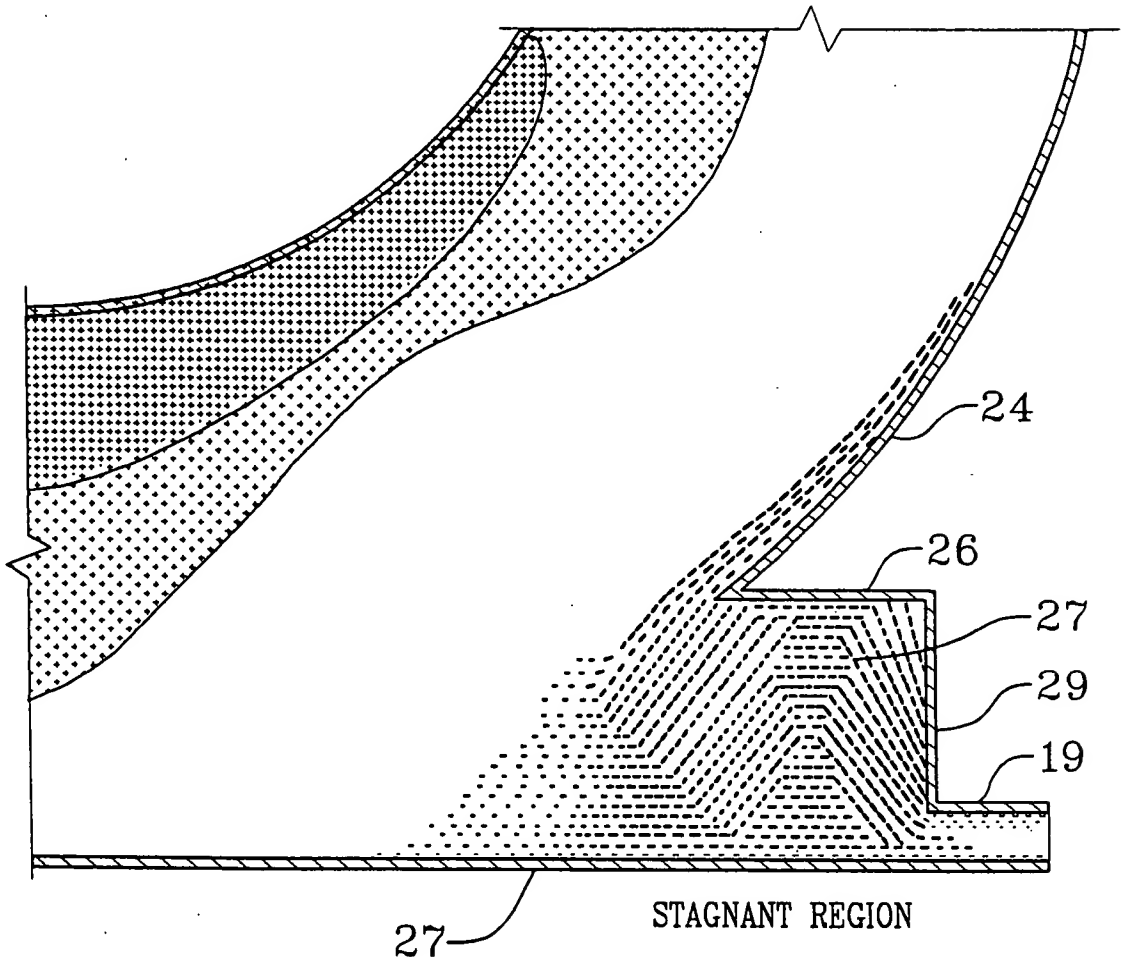


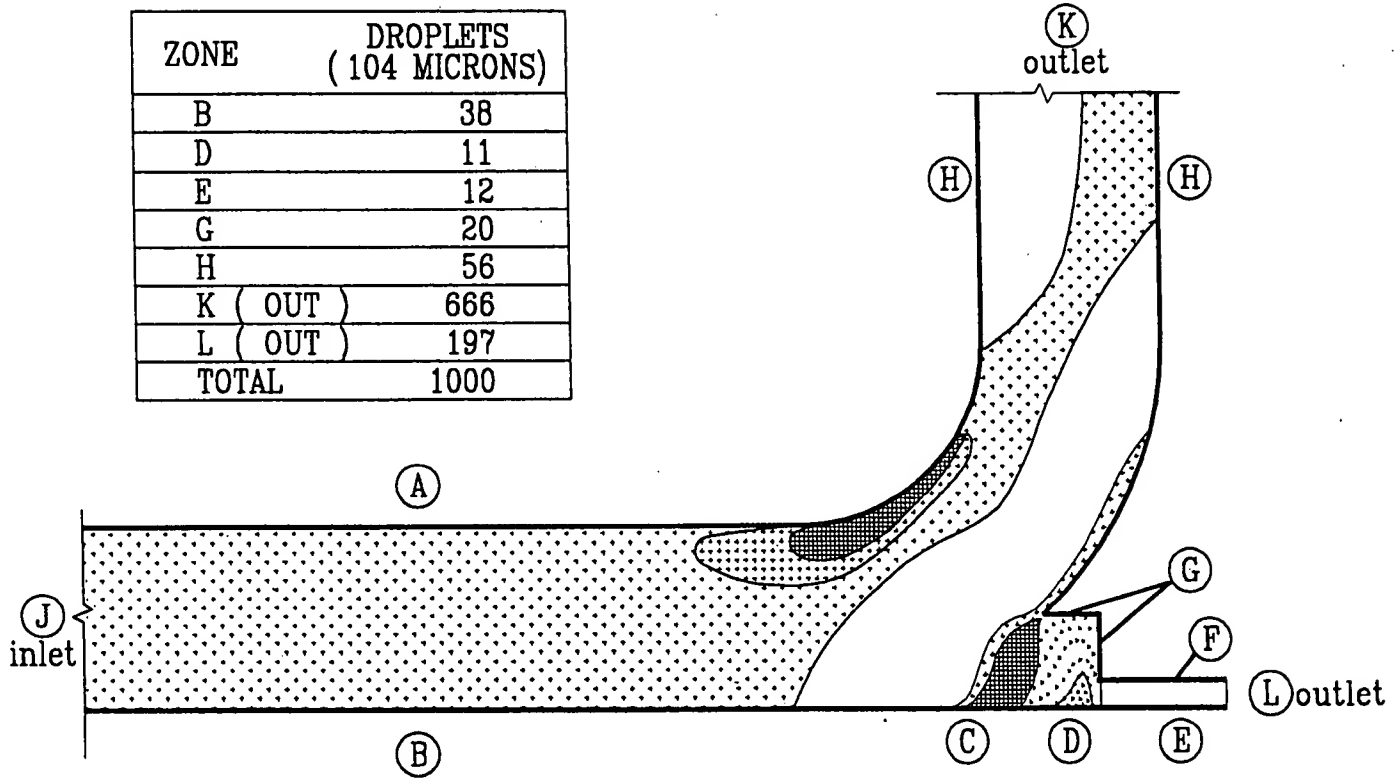
Fig. 2



POLYETHYLENE (PE) VAPOR PHASE VELOCITY MAGNITUDE PROFILES WITH 35 ft/sec INLET ZOOMED VIEW ILLUSTRATING STAGNANT REGION AT PIPE BOTTOM

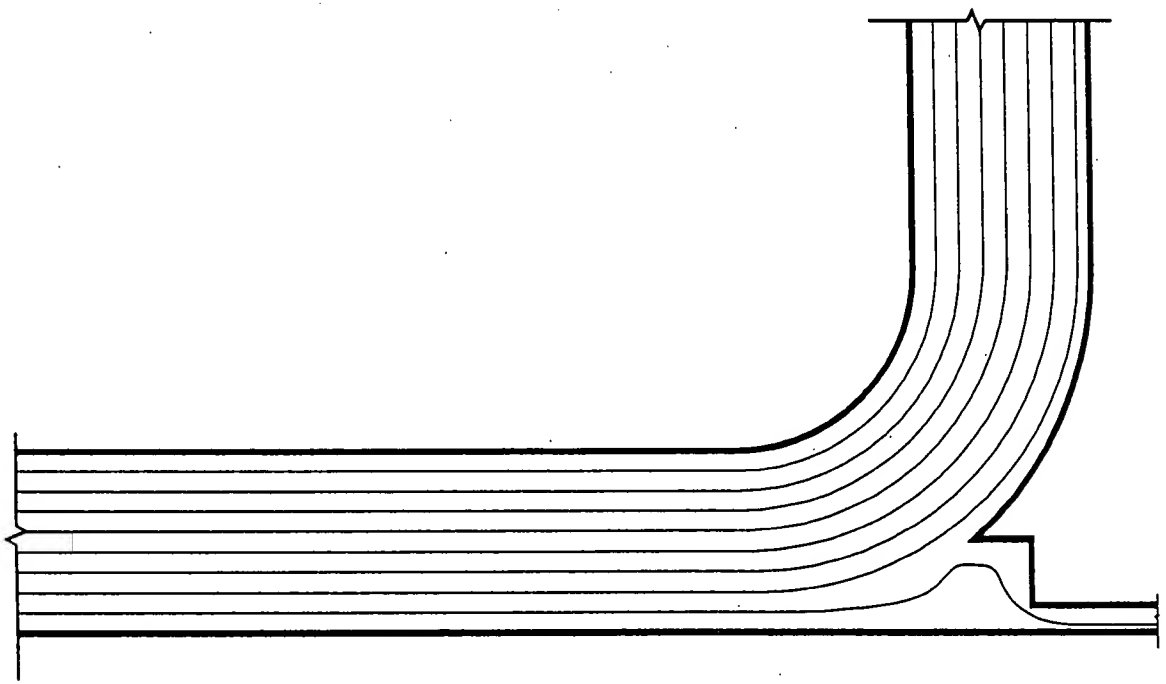
Fig. 3

ZONE	DROPLETS (104 MICRONS)
B	38
D	11
E	12
G	20
H	56
K (OUT)	666
L (OUT)	197
TOTAL	1000



POLYETHYLENE (PE) VAPOR PHASE VELOCITY MAGNITUDE PROFILES WITH 35 ft/sec INLET WITH 104 Micron LIQUID DROPLET DISTRIBUTION DATA

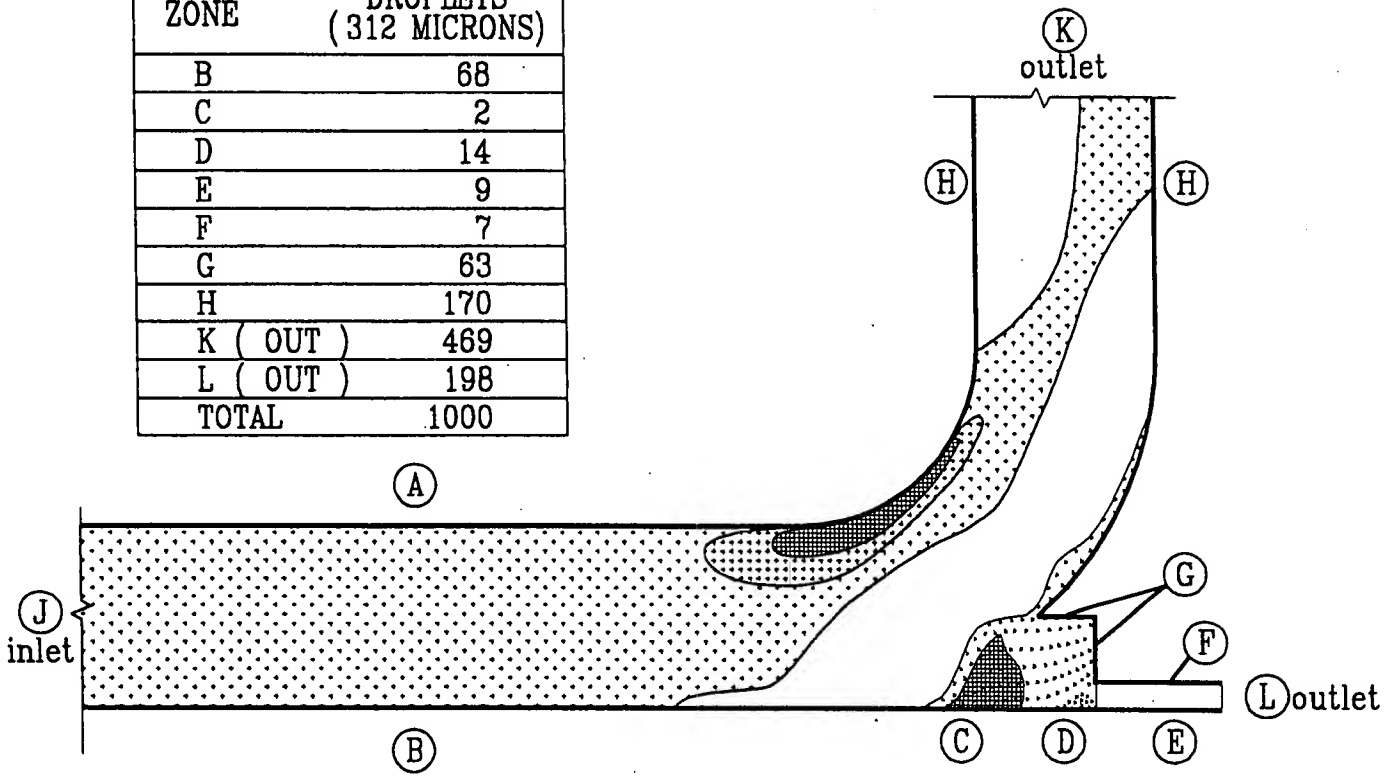
Fig.4



TYPICAL 10 DROPLET TRAJECTORY WITH 35 ft/sec INLET
WITH LIQUID DROPLET DISTRIBUTION DATA

Fig. 5

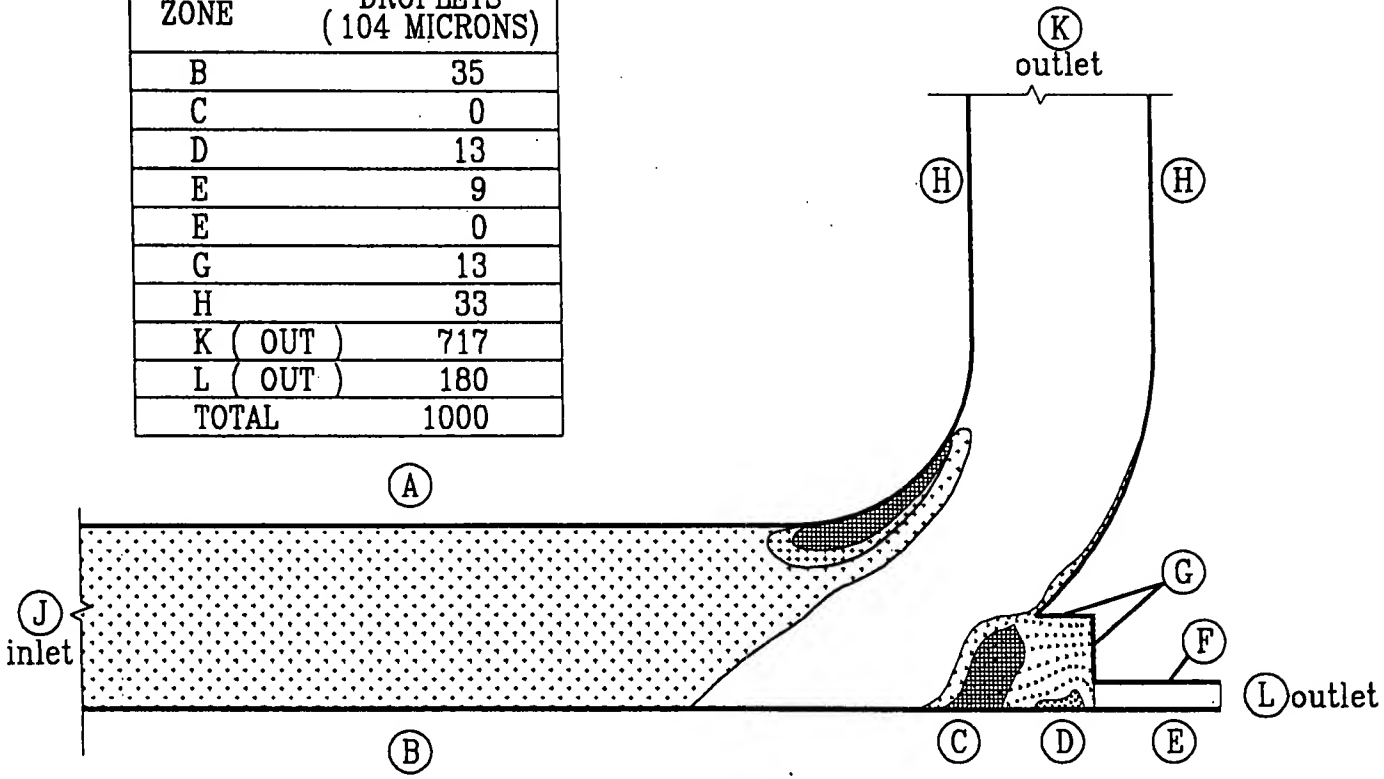
ZONE	DROPLETS (312 MICRONS)
B	68
C	2
D	14
E	9
F	7
G	63
H	170
K (OUT)	469
L (OUT)	198
TOTAL	1000



POLYETHYLENE (PE) VAPOR PHASE VELOCITY MAGNITUDE PROFILES WITH 55 ft/sec INLET WITH 312 Micron LIQUID DROPLET DISTRIBUTION DATA

Fig.6

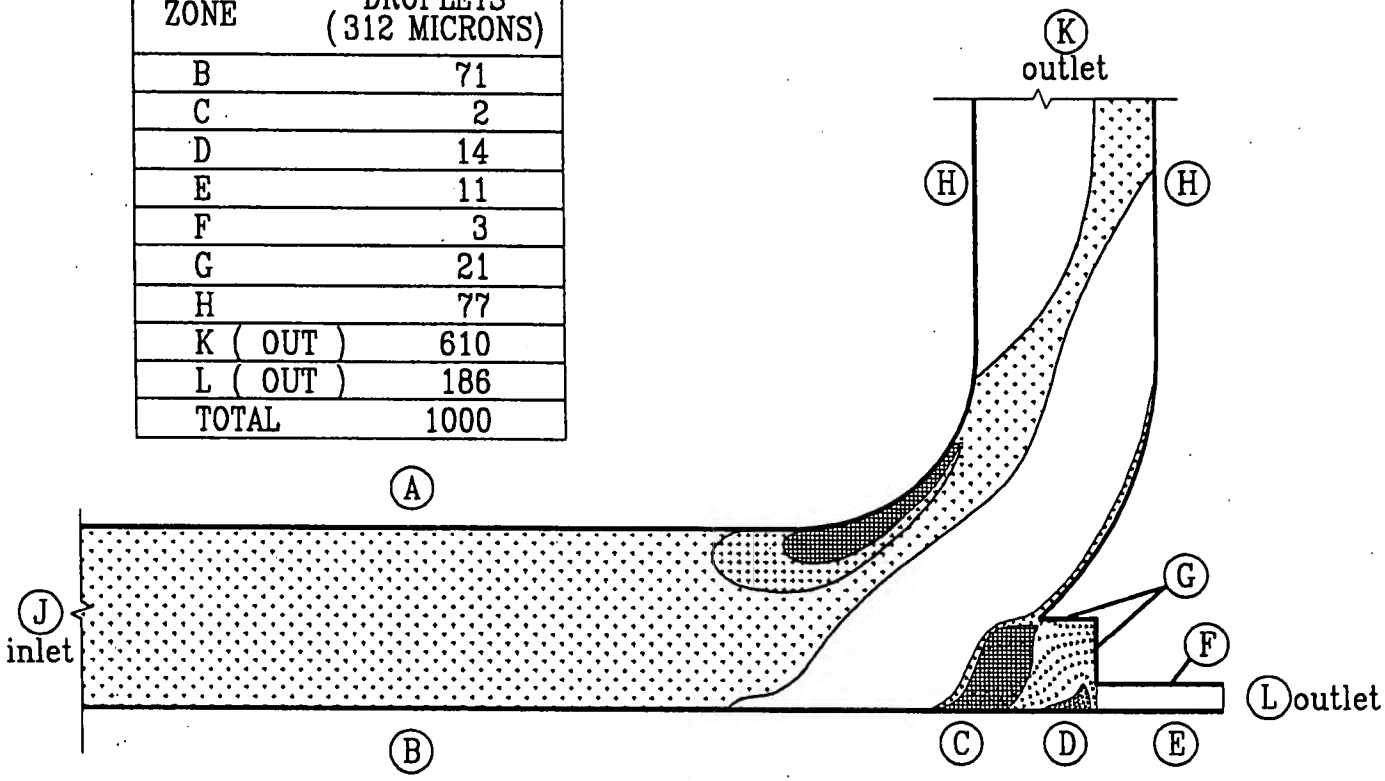
ZONE	DROPLETS (104 MICRONS)
B	35
C	0
D	13
E	9
E	0
G	13
H	33
K (OUT)	717
L (OUT)	180
TOTAL	1000



POLYPROPYLENE (PP) VAPOR PHASE VELOCITY MAGNITUDE PROFILES WITH 25 ft/sec INLET WITH 104 Micron LIQUID DROPLET DISTRIBUTION DATA

Fig.7

ZONE	DROPLETS (312 MICRONS)
B	71
C	2
D	14
E	11
F	3
G	21
H	77
K (OUT)	610
L (OUT)	186
TOTAL	1000



POLYPROPYLENE (PP) VAPOR PHASE VELOCITY MAGNITUDE PROFILES WITH 35 ft/sec INLET WITH 312 Micron LIQUID DROPLET DISTRIBUTION DATA

Fig.8

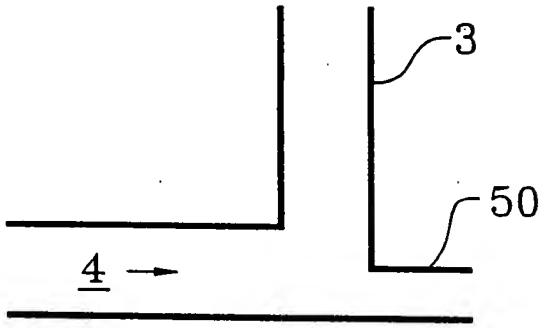


Fig.9

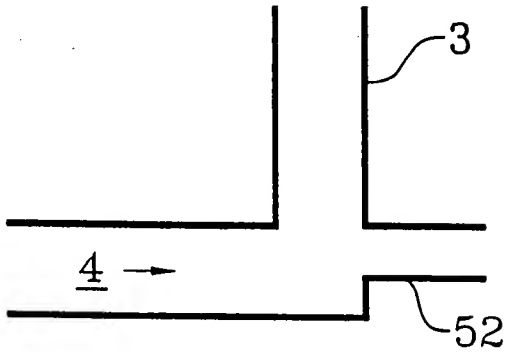


Fig.10

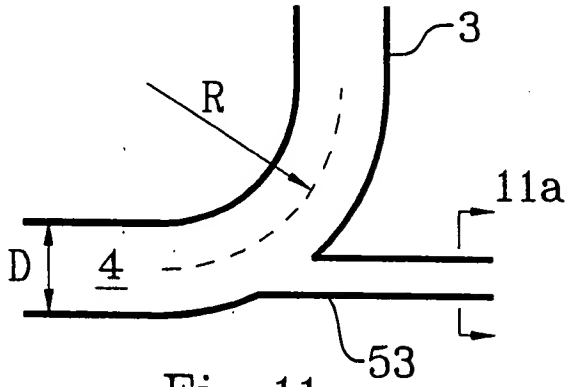


Fig.11

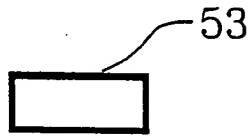
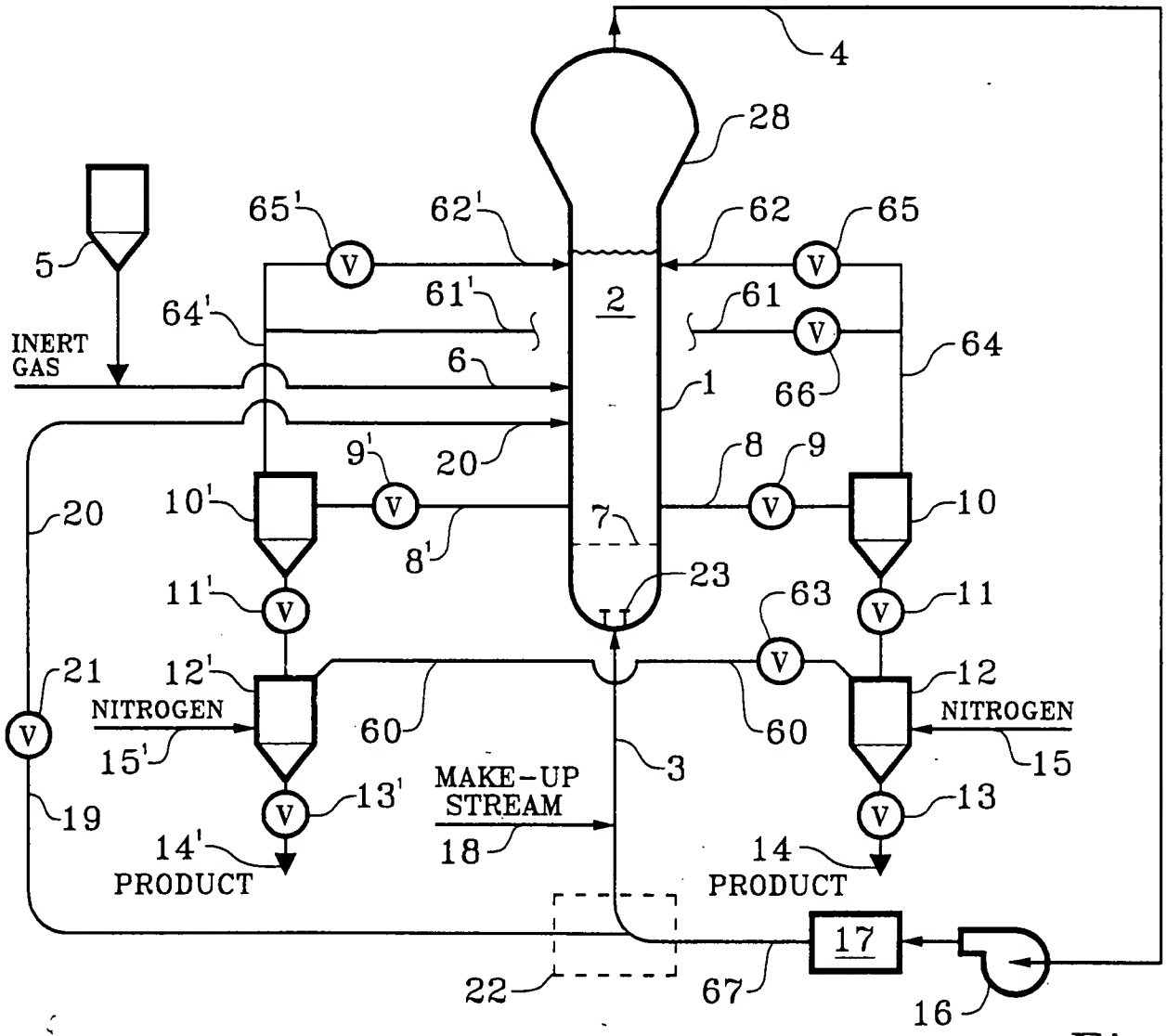


Fig.11a


4
28
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62'
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INERT
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23
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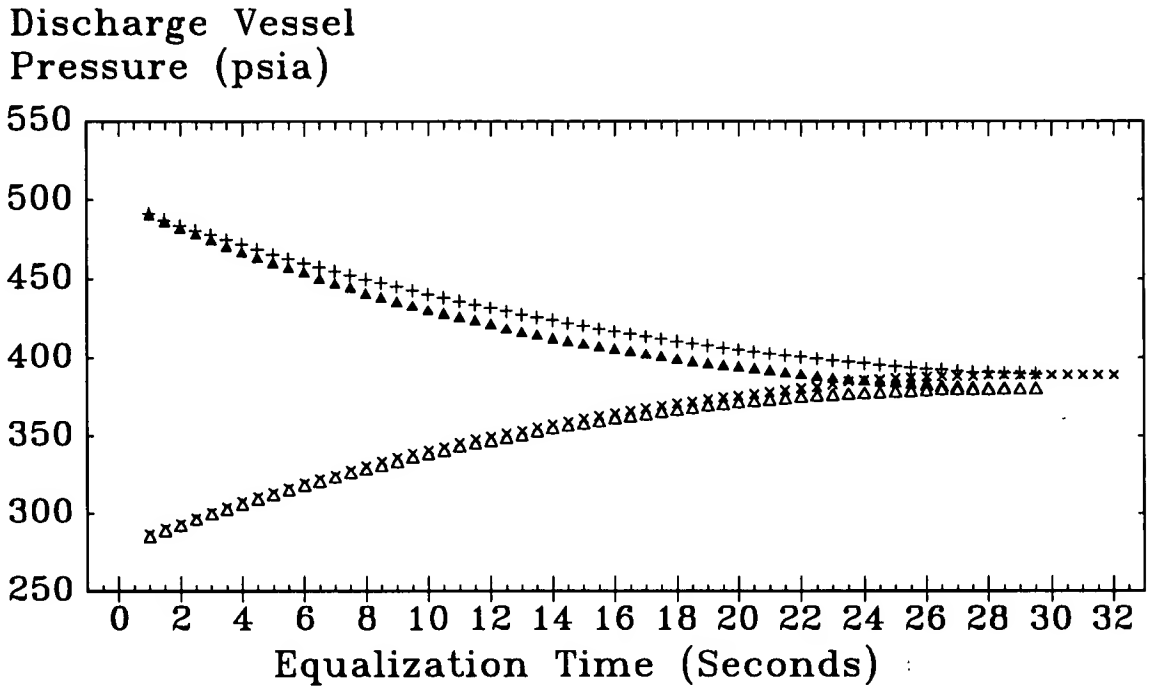
63
11
21
12'
12
NITROGEN
60
60
NITROGEN
15'
3
15
MAKE-UP
STREAM
19
13'
13
18
14'
14
PRODUCT
PRODUCT
17
22
67
16

Fig.12



SEMI-BATCH DISCHARGE SYSTEM PRESSURE EQUALIZATION FOR DRY AND WET DISCHARGE EVENTS.

+ Wet Sink Conditions (psia)
× Wet Source Conditions (psia)
▲ Dry Source Conditions (psia)
△ Dry Sink Conditions (psia)

Fig. 13